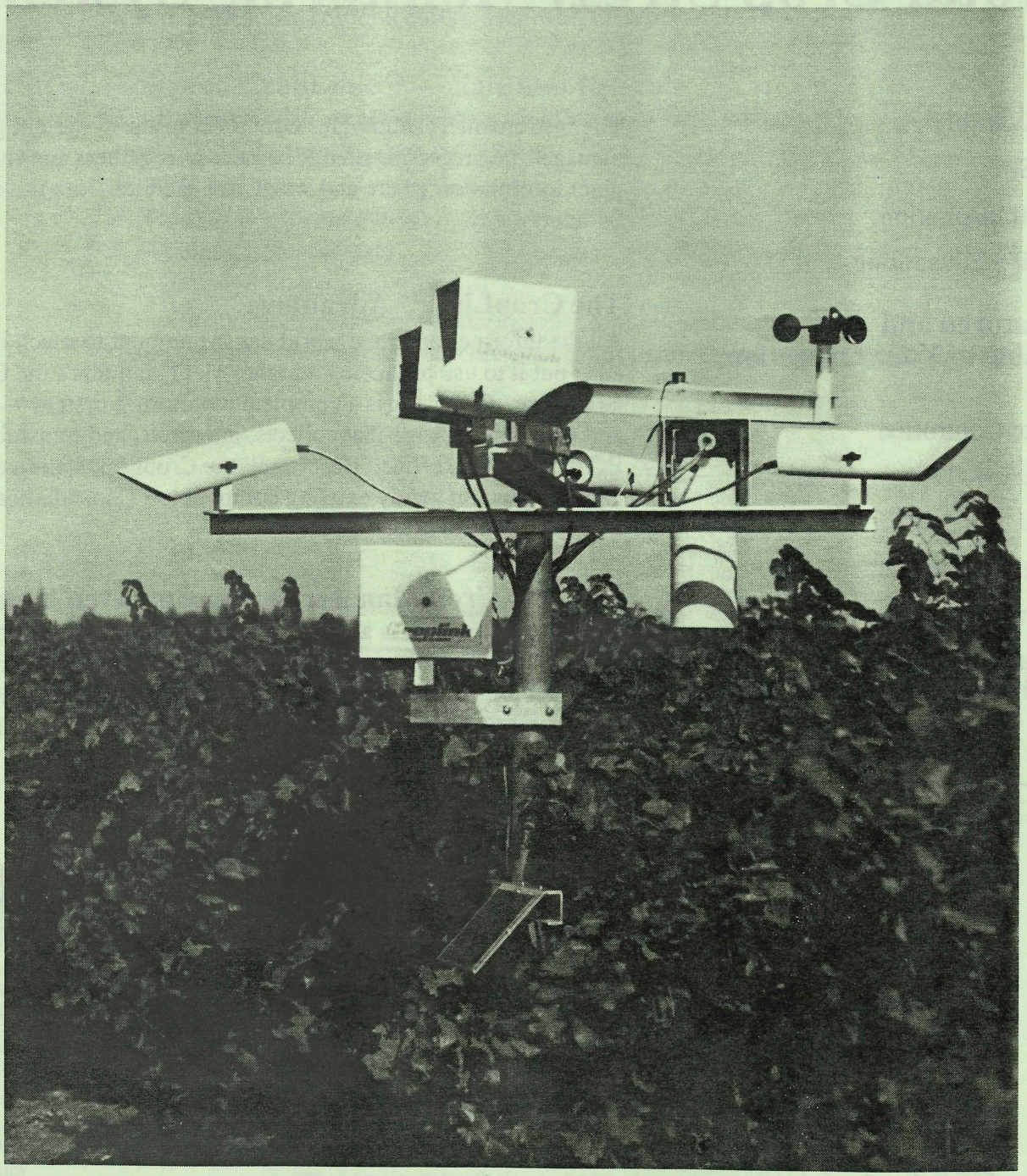
Cropinfo
Cropinfo

CARBORUNDUM

INSTRUMENT TECHNOLOGIES

Introducing Infrared CropLink™



Total Crop Monitoring for:

Frost Warning • Plant Stress • Evapotranspiration • Irrigation Scheduling

CARBORUNDUM

INSTRUMENT TECHNOLOGIES

TIRED OF WEATHER STATIONS THAT JUST GATHER USELESS DATA?

Introducing Infrared CropLink™. A Total Crop Stress Monitoring System.

- Frost Warning
- Plant Stress
- Evapotranspiration
- Irrigation Scheduling

Full Featured and Adaptable to Your Operation

- Remote Controlled
- Wireless — Lightning Safe
- Infared Telemetry
- Onboard Computer
- Custom Software
- Compatible with virtually any Irrigation Control System

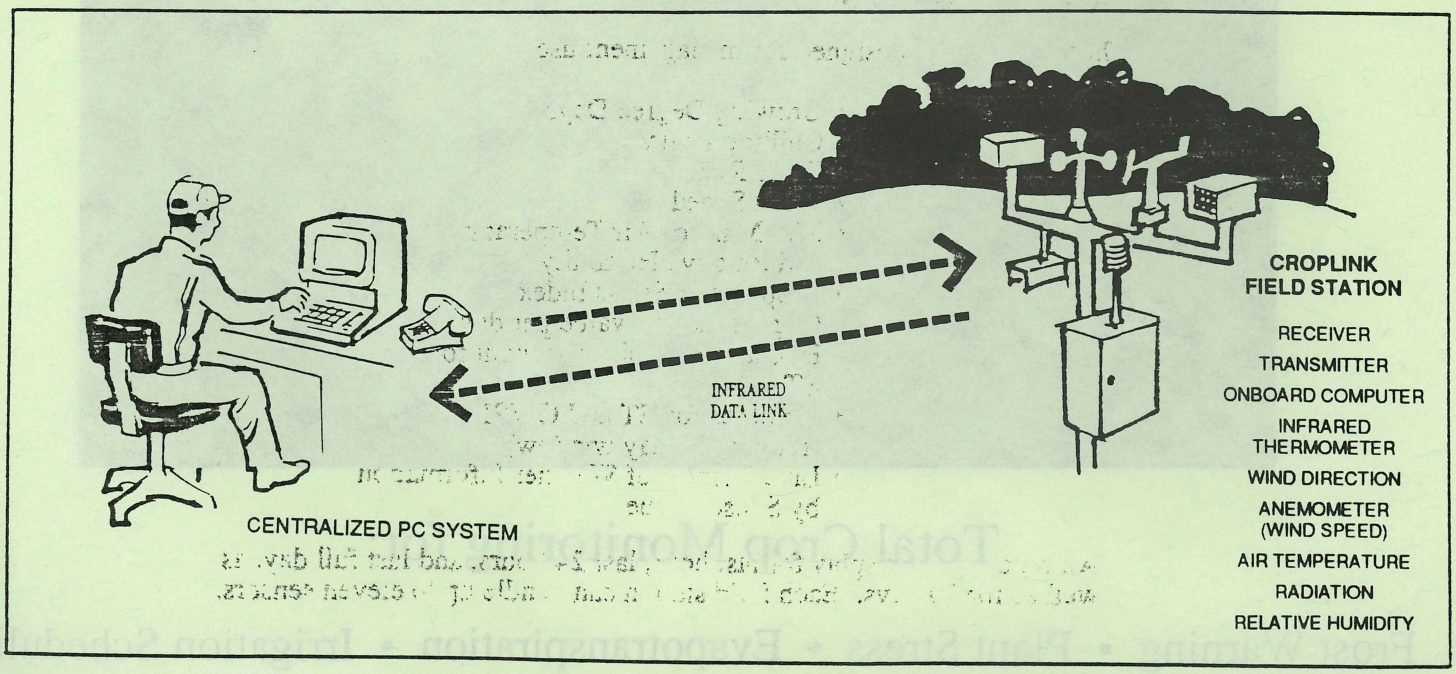
The Instrument Technologies Group CropLink™ system gives a crop manager the professional edge he needs. It gathers and measures vital plant information where and when you need it — out in your fields, 24 hours a day.

The CropLink™ Advantage

All the information in the world doesn't amount to much if you can't put it to use producing a higher yield, and that's the CropLink advantage. CropLink is a complete monitoring system — a hardware and software package that collects, interprets, and transmits data to a PC in your farm office. Best of all, the CropLink station and system can be added on to any existing compatible PC installation or irrigation control system.

The Best Crop Manager can become even better

Here, in one system, is all the information you'll ever need for a superior irrigation program. The self-contained CropLink field station continuously monitors air temperature, relative humidity, wind conditions, and plant water stress. The information is



CropLink™ Software Features

Sensor Selection

Each sensor can be set by the user to display in degrees C or F, and each infared sensor can be assigned a crop for the calculation of Crop Water Stress Index.

Critical to any weather collecting device is the ability to manage data files efficiently. The CROPLINK™ software allows the user to select how the system stores and retrieves data from each sensor. Options include:

- No History
- Daily Average
- Hourly Average + Daily Average
- Hourly Average + Daily Min/Max
- Hourly Min/Max
- Hourly Min/Max + Daily Min/Max
- All Data (every 3 1/2 minutes)
- Hourly Average (only)
- Daily Min/Max
- Average for the season

The user can change the selection at anytime to modify how the data is stored for the sensor. When a selection is made, the program tells you how much memory is required for a 30 day period to aid in file maintenance. Regardless of how sensor storage is selected, each sensor will display to the screen for other reporting purposes in its live mode.

Alarms

Alarms can be set within the software for each sensor. To set an alarm, a user can choose the threshold of either a high or low value. Each alarm can be assigned a "status" (degree of importance 1-3) that will correspond to a programmed warning activity ranging from an audible via the PC, a printed report, or modem communications via telephone lines.

Management Reports

These reports are designed for management use:

- Growing Degree Days
- Chilling Hours
- Wind Run
- Wind Speed
- Min/Max for Air Temperature and Relative Humidity
- Crop Water Stress Index (highest hourly value per day)
- ETo and Flexibility to input for ETc
- Graphics for ET and CWSI (running 30 day window)
- Live Display of Weather Information by Sensor Type

All reports will display for last hour, last 24 hours, and last full day, as well as for 30 days. Each field station can handle up to eleven sensors.

interpreted by the station's onboard computer, and then transferred by infrared telemetry at distances up to a mile to your central control station. The result is an ongoing profile of actual plant conditions, allowing the crop manager to:

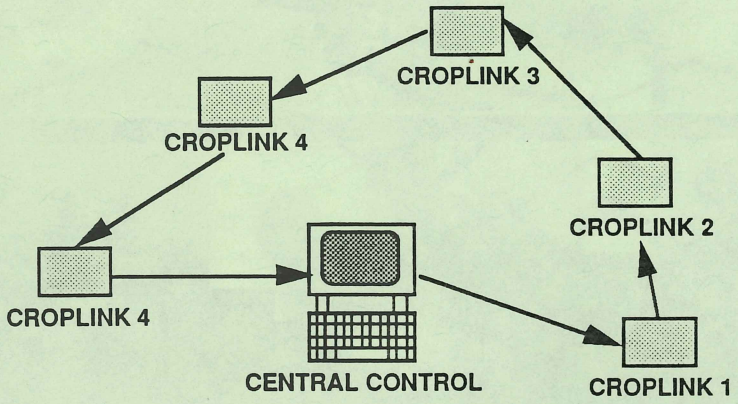
- Make watering decisions based on actual crop needs
- Cut irrigation costs and still maintain maximum yeilds
- Spot crop stress before it can be seen with the eye

Infrared CropLink™ — Safe and Reliable

Unlike many other weather stations, the CropLink field station operates on the infrared data link system. The advantages of Infrared telemetry are:

- Rugged, low maintenance
- Wireless, lightning-safe
- Unaffected by radio interference

In addition, an unlimited number of CropLink stations can be daisy-chained at up to one mile increments throughout your fields.



SYSTEM FEATURES:

INFRARED TELEMETRY

- Low Cost
- One Mile Line-of-Sight
- Repeaters will Increase Distance

SENSOR PACKAGE

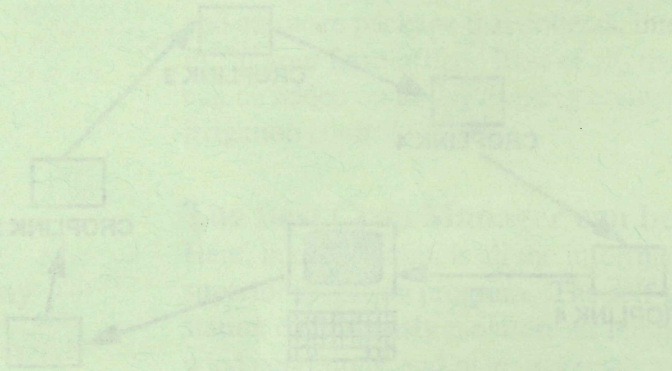
- Not Ala Cart
- Preselected Highest Caliber Equipment
- Includes Infrared Thermometer (First in Industry)
- Plant Temperature for Frost Warning and Plant Stress

SOFTWARE

- ET and Plant Stress Index Calculations
- Graphics
- Alarms for Each Sensor
- Automatic File Maintenance

CARBORUNDUM

INSTRUMENT TECHNOLOGIES



If farming is your business, then take a look at the CropLink™ system. It is the latest tool in crop monitoring from the leaders in the field, Instrument Technologies. For more information call Lynn Bucknell at 1-800-356-0458, or write:

Lynn Bucknell
Carborundum
Instrument Technologies
P.O. Box 391316
6180 Cochran Road
Solon, OH 44139

STANDARD OIL
ENGINEERED MATERIALS

TIRED OF WEATHER STATIONS THAT JUST GATHER USELESS DATA?

Introducing Infrared CropLink. A Total Crop Stress Monitoring System.

- Frost warning
- Plant stress
- Evapotranspiration
- Irrigation scheduling

Full featured and adaptable to your operation

- Remote controlled
- Wireless—lightning safe
- Infrared telemetry
- Onboard computer
- Custom software
- Compatible with virtually any irrigation control system

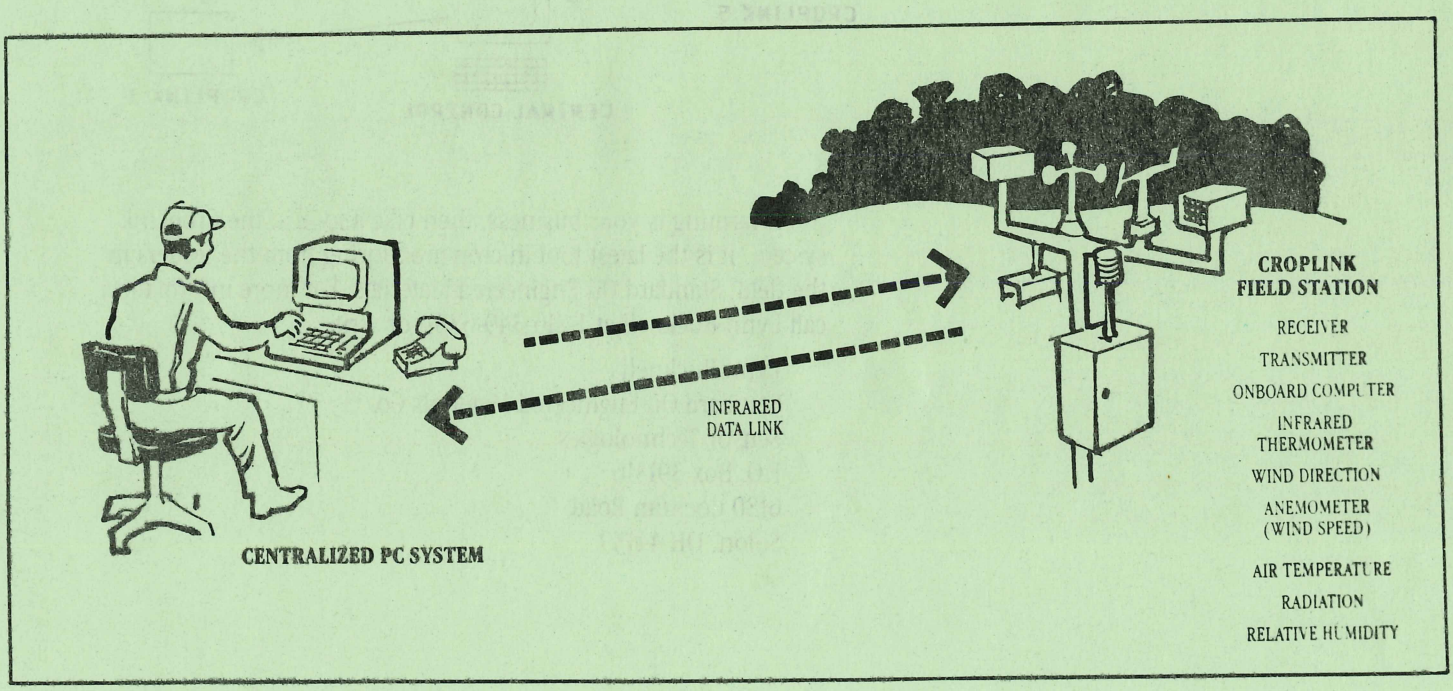
The Standard Oil Engineered Materials CropLink system gives a crop manager the professional edge he needs. It gathers and measures vital plant information where and when you need it—out in your fields, 24 hours a day.

The CropLink advantage

All the information in the world doesn't amount to much if you can't put it to use producing a higher yield, and that's the CropLink advantage. CropLink is a complete monitoring system—a hardware and software package that collects, interprets, and transmits data to a PC in your farm office. Best of all, the CropLink station and system can be added on to any existing compatible PC installation or irrigation control system.

The best crop manager can become even better

Here, in one system, is all the information you'll ever need for a superior irrigation program. The self-contained CropLink field station continuously monitors air temperature, relative humidity, wind conditions, and plant water stress. The information is



interpreted by the station's onboard computer, and then transferred by infrared telemetry at distances up to a mile to your central control station. The result is an ongoing profile of actual plant conditions, allowing the crop manager to:

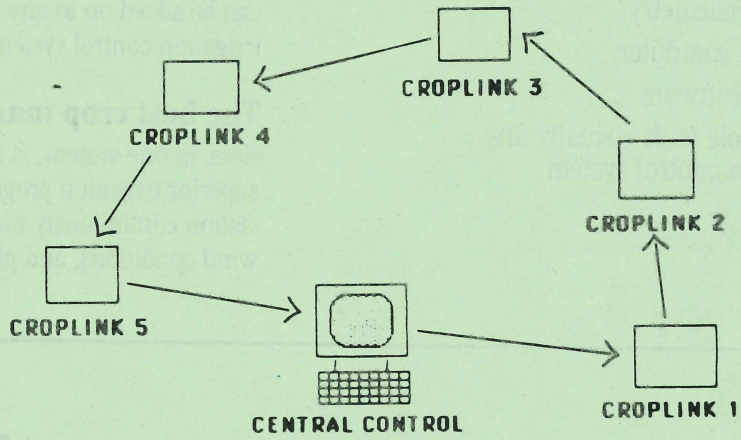
- Make watering decisions based on actual crop needs
- Cut irrigation costs and still maintain maximum yields
- Spot crop stress before it can be seen with the eye

Infrared CropLink—safe and reliable

Unlike many other weather stations, the CropLink field station operates on the infrared data link system. The advantages of Infrared telemetry are:

- Rugged, low maintenance
- Wireless, lightning-safe
- Unaffected by radio interference

In addition, an unlimited number of CropLink stations can be daisy-chained at up to one mile increments throughout your fields.



If farming is your business, then take a look at the CropLink system. It is the latest tool in crop monitoring from the leaders in the field, Standard Oil Engineered Materials. For more information call Lynn Bucknell at 1-216-349-6881, or write:

Lynn Bucknell
Standard Oil Engineered Materials Co.
Sensor Technologies
P.O. Box 391316
6180 Cochran Road
Solon, OH 44139

Croplink

STANDARD OIL
ENGINEERED MATERIALS

YOU'VE READ ABOUT IT. YOU WANT IT. HERE IT IS...

TurfLink. The Total Weather Station System for Turf Management.

The information you need when you need it

- Turf stress
- Evapotranspiration
- Irrigation scheduling

Full featured and adaptable to your operation

- Remote controlled
- Wireless—lightning safe
- Infrared telemetry
- Onboard computer
- Custom software and installation
- Compatible with virtually any irrigation control system

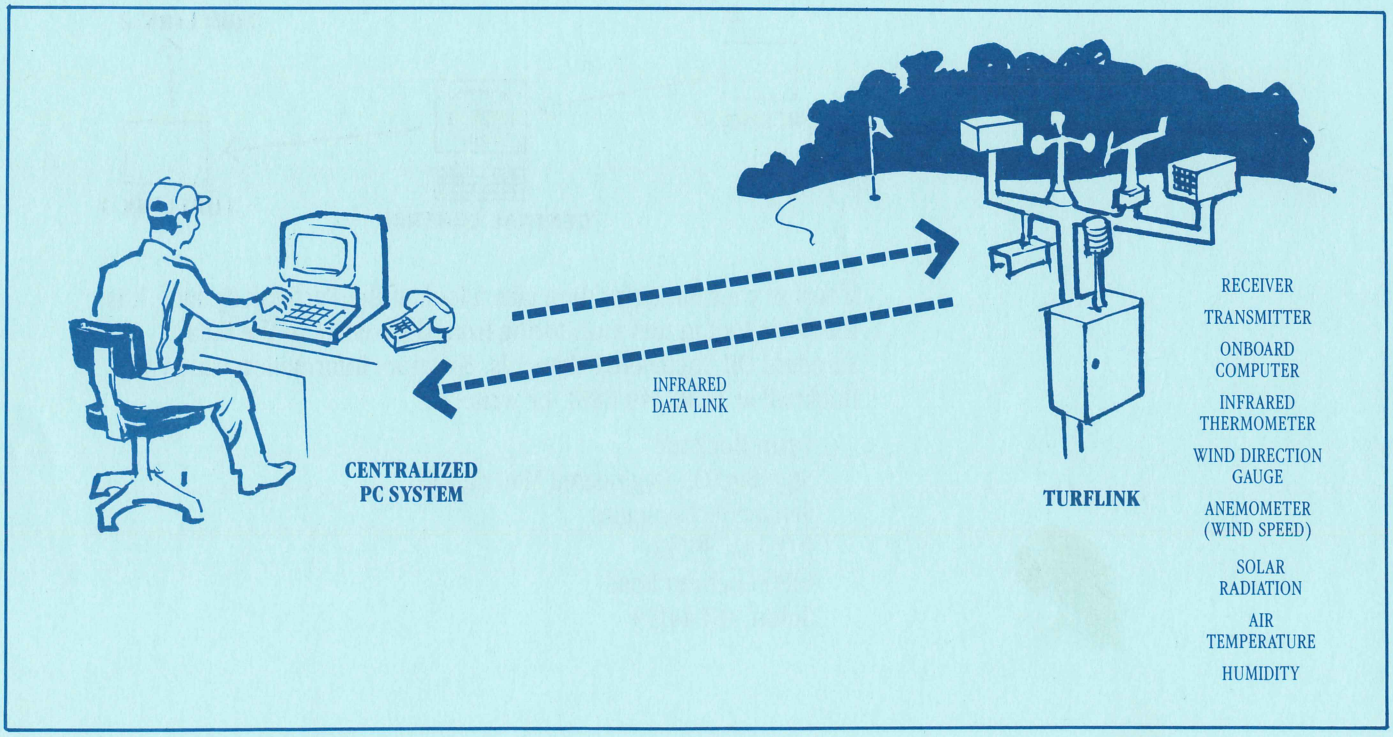
The Standard Oil Engineered Materials TurfLink system gives a course manager the professional edge he needs. It gathers and measures vital turf information where and when you need it—out on the course, 24 hours a day.

The TurfLink advantage

All the information in the world doesn't amount to much if you can't put it to use, and that's the TurfLink advantage. TurfLink is a complete turf monitoring system—a hardware and software package that collects, interprets, and transmits data to your PC or controller. Best of all, the TurfLink station and system can be added on to virtually any existing irrigation control system.

The best turf manager can become even better

Here, in one system, is all the information you'll ever need for a superior irrigation program. The self-contained TurfLink field station continuously monitors temperature, relative humidity, wind



conditions, and turf stress. The information is interpreted by the station's onboard computer, and then transferred by infrared telemetry at distances up to a mile to a central PC or control system. The result is an ongoing profile of actual turf conditions, allowing a golf course manager to:

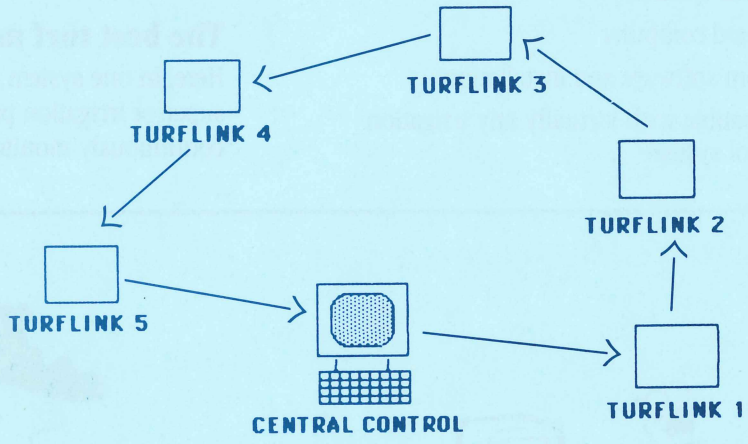
- Make watering decisions based on actual needs
- Cut watering costs and still maintain top turf quality
- Spot turf stress before it can be seen with the eye

Infrared TurfLink—safe and reliable

Unlike many other weather stations, the TurfLink field station operates on the infrared data link system. The advantages of Infrared telemetry are:

- Low in cost
- Wireless, lightning-safe
- Unaffected by radio interference

In addition, if you need more than one field station, an unlimited number of TurfLink stations can be daisy-chained at up to one mile increments.



If turf is your business, then take a look at the TurfLink system. It is the latest tool in turf monitoring from the leaders in the field, Standard Oil Engineered Materials. For more information call Lynn Bucknell at 1-216-349-6881, or write:

Lynn Bucknell
Standard Oil Engineered Materials Co.
Sensor Technologies
P.O. Box 391316
6180 Cochran Road
Solon, OH 44139